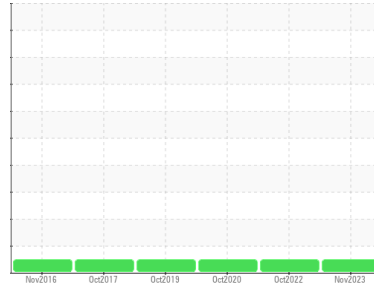




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
M0026

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (12 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0764087	WC0709862	WC0442601
Sample Date	Client Info		21 Nov 2023	11 Oct 2022	07 Oct 2020
Machine Age	hrs	Client Info	347	333	306
Oil Age	hrs	Client Info	28	13	27
Oil Changed	Client Info		Not Changed	Not Changd	Not Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.1	<1.0	<1.0	<1.0
Water	WC Method	>0.21	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>51	3	2	4
Chromium	ppm	ASTM D5185(m)	>11	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>31	1	<1	<1
Lead	ppm	ASTM D5185(m)	>26	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>26	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	250	2	3	2
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	2	3	37
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	450	41	41	742
Calcium	ppm	ASTM D5185(m)	3000	2152	2215	1221
Phosphorus	ppm	ASTM D5185(m)	1150	847	922	984
Zinc	ppm	ASTM D5185(m)	1350	966	951	1203
Sulfur	ppm	ASTM D5185(m)	4250	3154	3027	2943
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

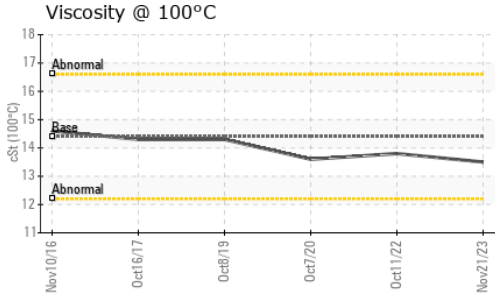
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>22	2	2	3
Sodium	ppm	ASTM D5185(m)	>158	2	1	4
Potassium	ppm	ASTM D5185(m)	>20	1	1	<1

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.8	5.7	5.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	15.6	16.2	15.0

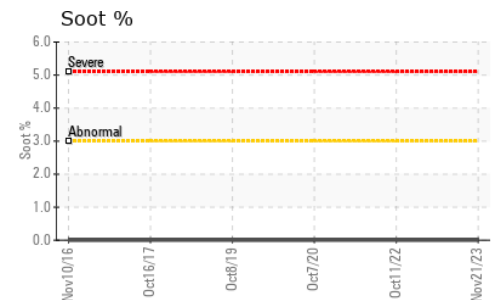
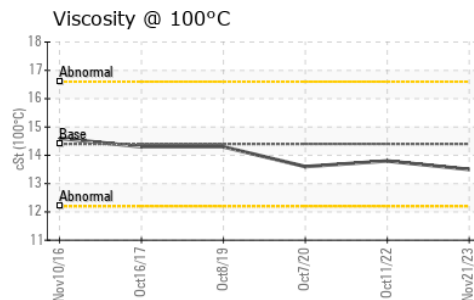
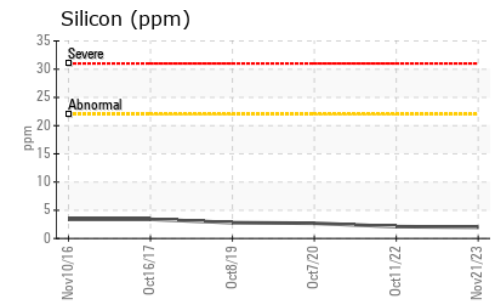
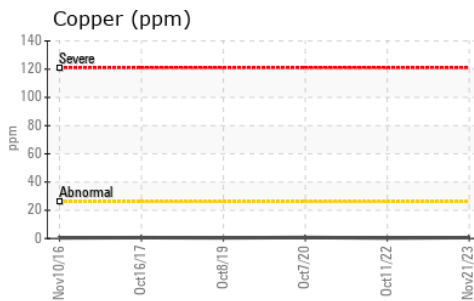
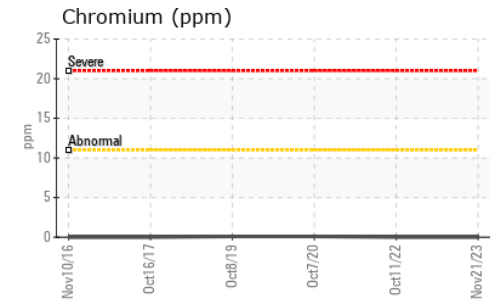
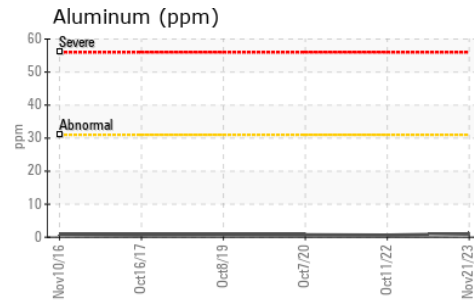
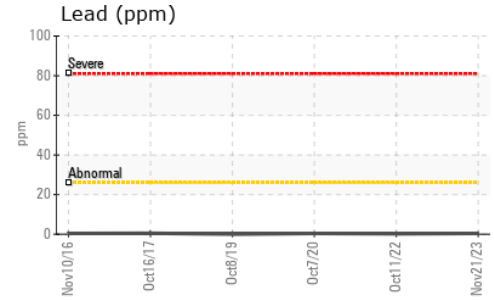
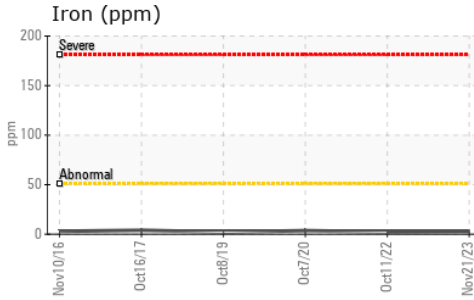


OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	9.3	9.3	11.9
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.5	13.8	13.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0764087 **Received** : 05 Jan 2024
Lab Number : **02606678** **Diagnosed** : 05 Jan 2024
Unique Number : 5707764 **Diagnostician** : Wes Davis
Test Package : MOB 1

GENCARE SERVICES LTD.
 360 SOVEREIGN ROAD
 LONDON, ON
 CA N6M 1A8
 Contact: Teresa Matthews
 tmatthews@gencare.com
 T: (519)659-7118
 F: (519)451-1707

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.